

**ABSTRACT**

The dynamic level-adjustment compensation circuit includes an analyzing unit, multiple gamma voltage generators and a selector. The analyzing unit is used to analyze the gray-level distribution of the dynamic image signal and output an analysis signal. Each of the gamma voltage generators producing a gamma voltage determined by a gamma characteristic curve. The selector is electrically connected to the analyzing unit and the gamma voltage generators. The selector selects one of the gamma voltage generators according to the analysis signal and the selected gamma voltage generator outputs the corresponding gamma voltage. The gray-level distribution of the dynamic image signal input to a display can be analyzed and then, determined by the analysis result, one of gamma voltage generators is selected to output a gamma voltage driving a display. Accordingly, the image quality can be improved.